

**Amendments to the Specification**

Please replace paragraph [0046] with the following rewritten paragraph:

[0046]

In this embodiment, as shown in FIG. 7A, the width  $T_w$  of the voltage pulse to be applied to the actuator unit 19 is controlled to be shorter than the pulse width  $T_{max}$  at which the maximum ejection speed of ink ejected from the nozzle 13 is obtained. This pulse width  $T_{max}$ , in this embodiment, corresponds to a time period in which the pressure wave propagates from the ink ejection port 13a connected to one end of the pressure chamber 34, to the outlet of the aperture 32 near the pressure chamber 34 side, connected to the other end of the pressure chamber 34 (the part indicated by an arrow within the passage in FIG. 4). The width  $T_w$  is preferably controlled to be not less than  $0.7 T_{max}$  and not more than  $0.8 T_{max}$ . In other words, as apparent from ~~FIG. 7B~~, FIG. 7B, the time period  $T_w$  from the time point T1 when the actuator unit 19 starts to change from the first state to the second state, until the time point T2 when the actuator unit 19 starts to change from the second state to the first state, is controlled to be shorter than  $T_{max}$ , preferably, not less than  $0.7 T_{max}$  and not more than  $0.8 T_{max}$ .

Please replace paragraph [0061] with the following rewritten paragraph:

[0061]

In the above embodiment, "a time period in which the pressure wave propagates from the ink ejection port 13a to the outlet of the aperture 32 near the pressure chamber 34 side in the ink passage within the ink passage unit ~~20~~"120" corresponds to the pulse width  $T_{max}$  at which the maximum ejection speed of ink is obtained. However, this is not limitative. As shown in FIG. 12, for example, when the head main body ~~102~~ body 102a does not comprise the aperture 32 (see FIG. 4) and a cylindrical connection hole 133 is formed extending from the pressure chamber 34 to the manifold channel 30, "a time period in which the pressure

wave propagates from the ink ejection port 13a to the outlet of the manifold channel 30 near the pressure chamber 34 side in the ink passage within the ink passage ~~unit 20~~unit 120 may be considered to correspond to 'Tmax' in the present invention. That is, a value of the pulse width 'Tmax' at which the maximum ink ejection speed is obtained varies in accordance with configurations of the ink passage within the ink passage ~~unit 20~~unit 120.